

FIG. 1

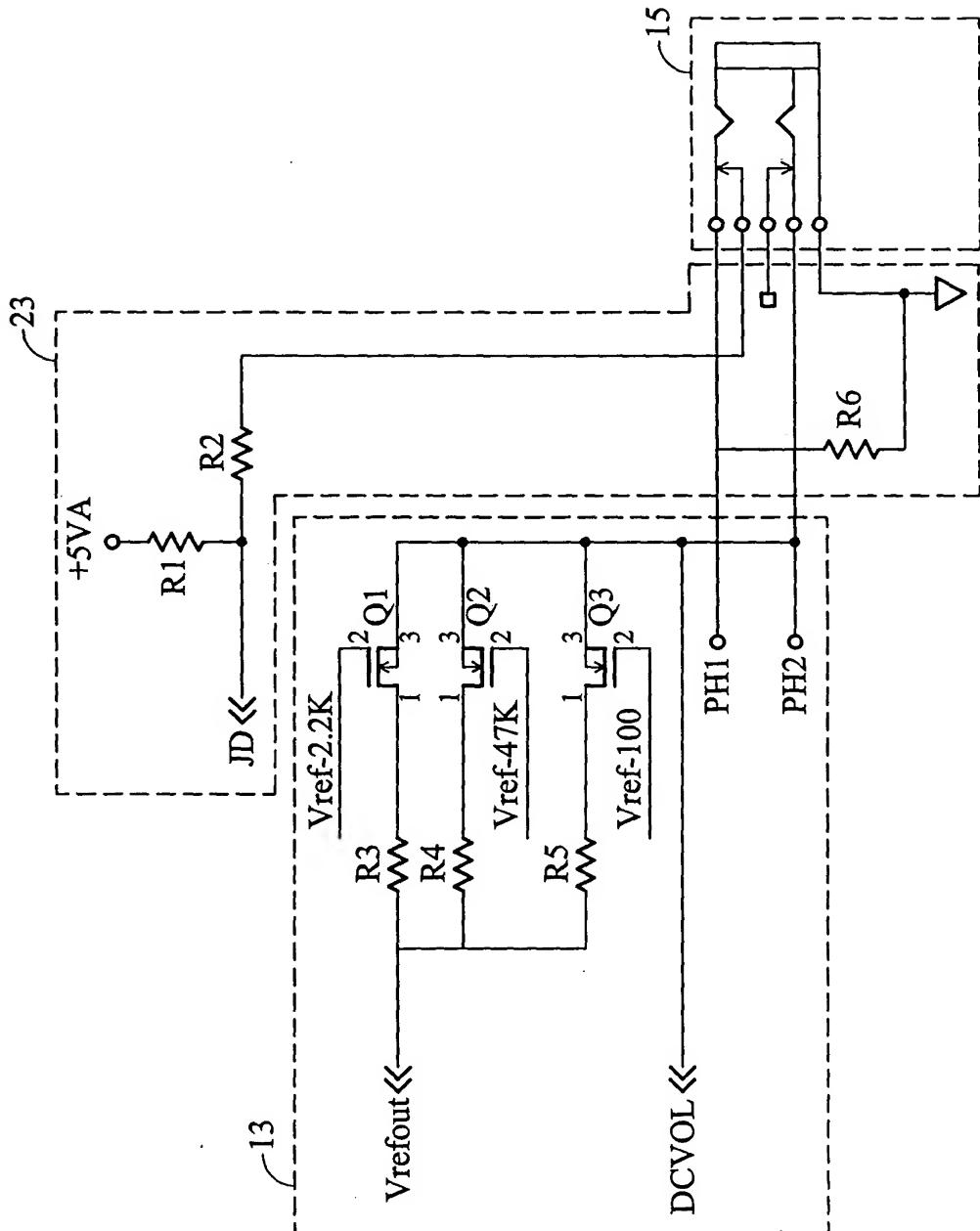


FIG. 2A

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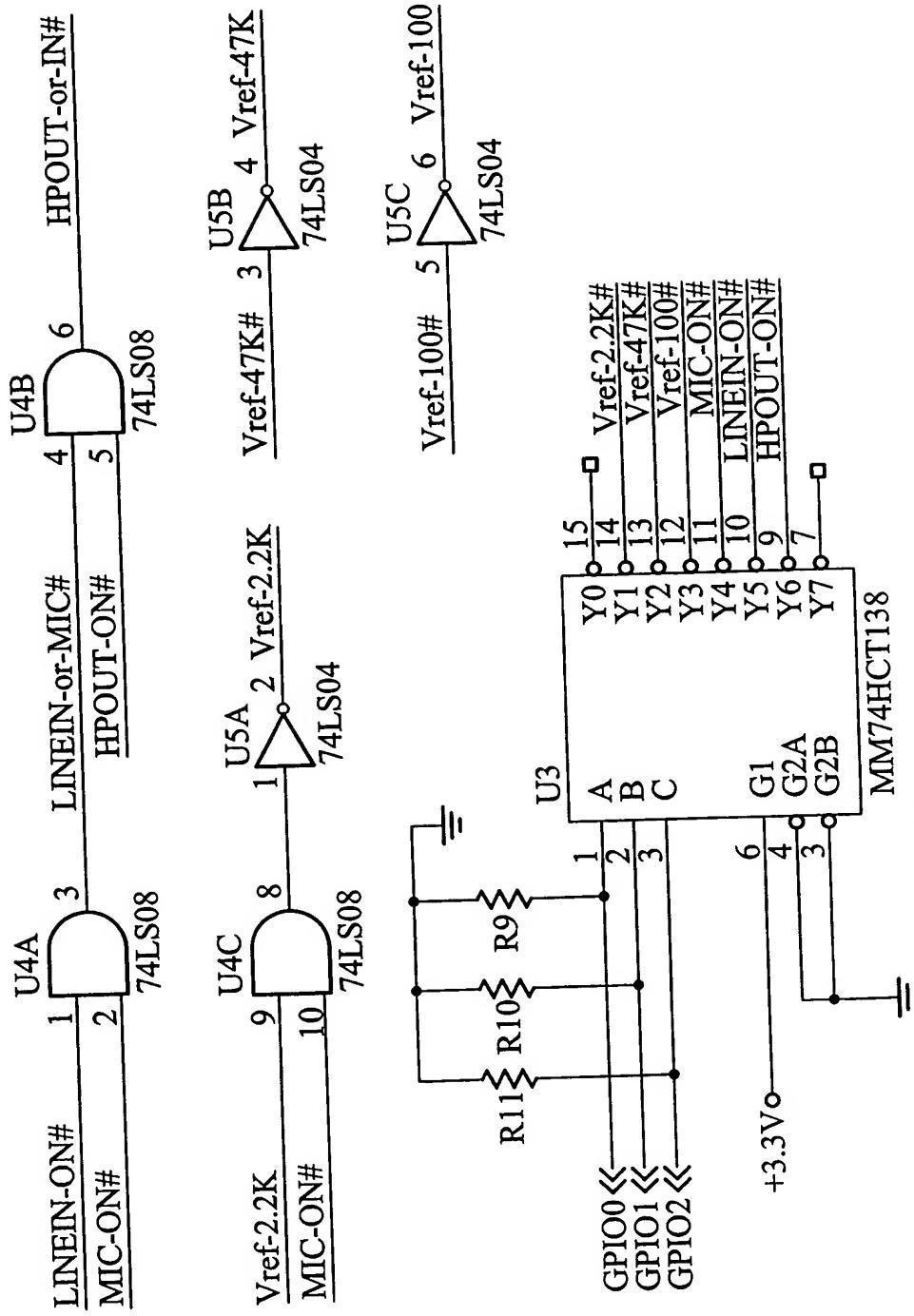


FIG. 2B

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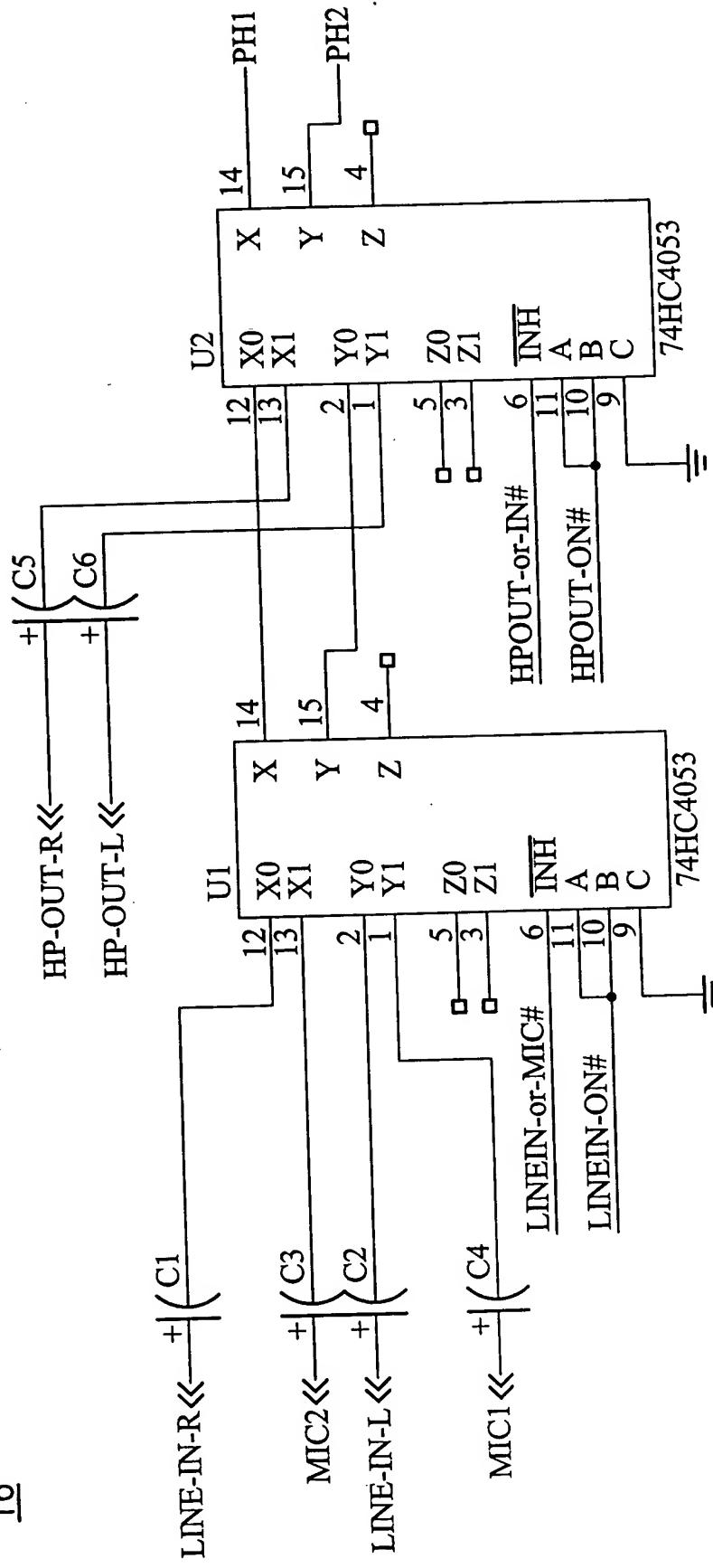


FIG. 2C

New Application: Chu-Ting SU et al.
 Filed: September 15, 2003
 10 sheets of drawings FIGS.1-7
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 Atty Docket: TOP 325
 Customer NO.: 23995.

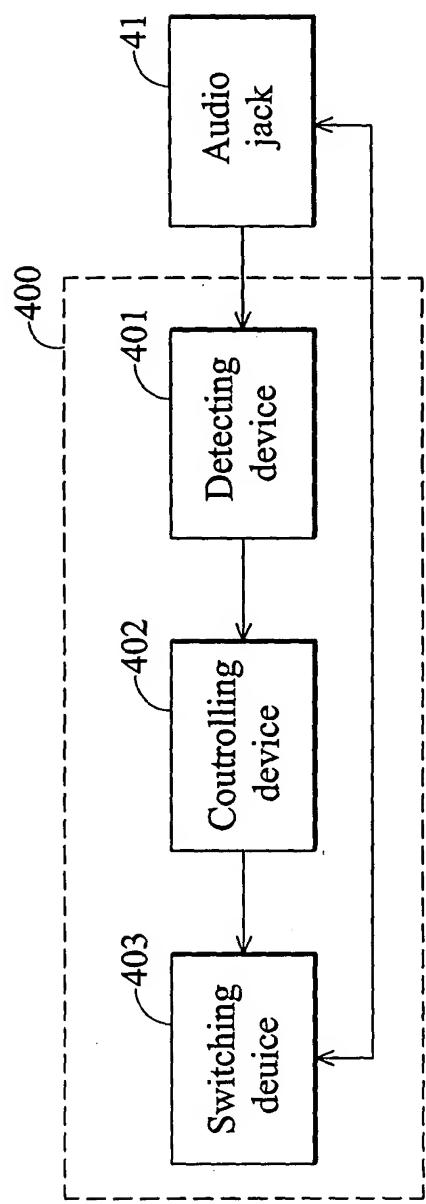


FIG. 3

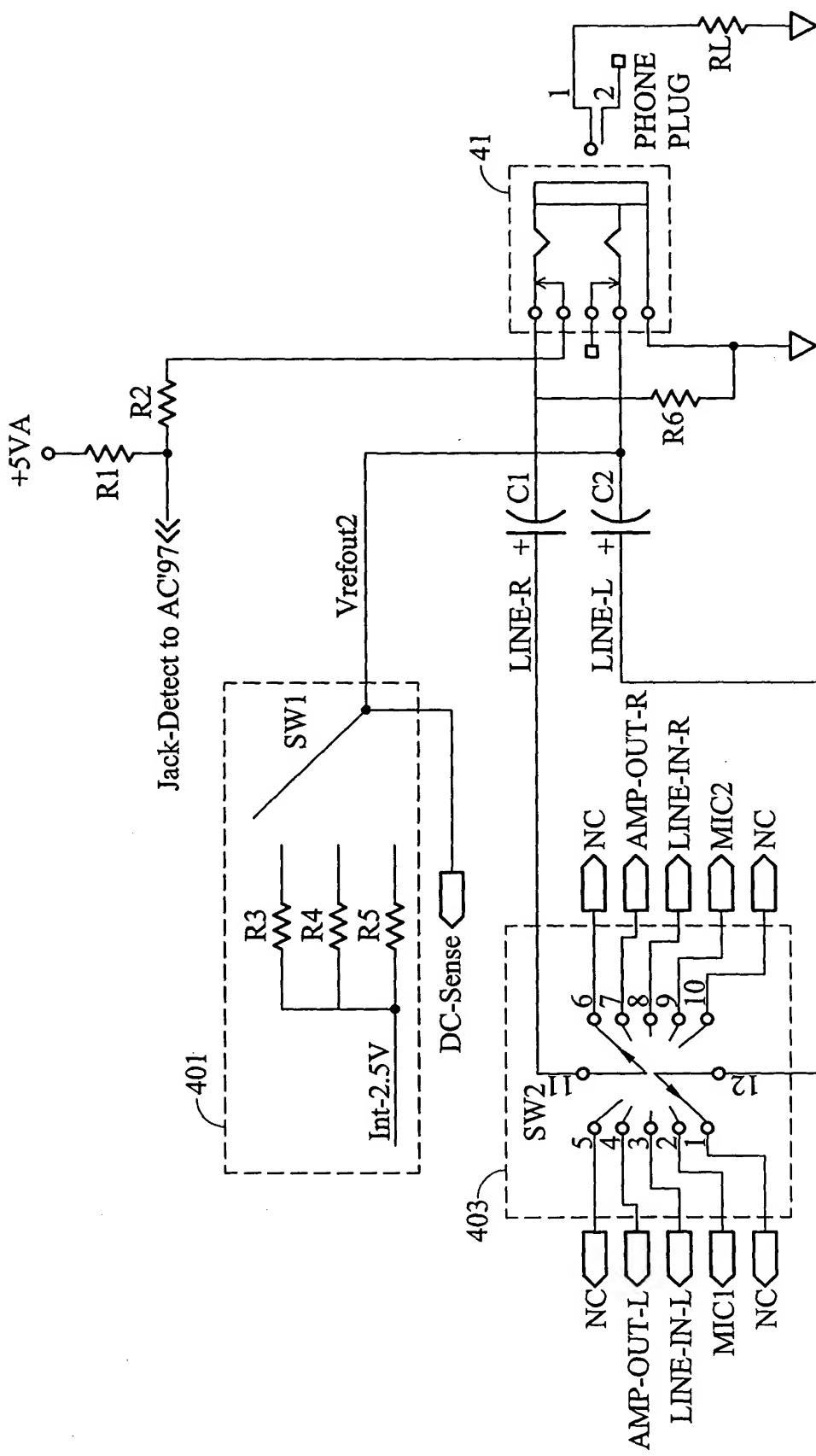
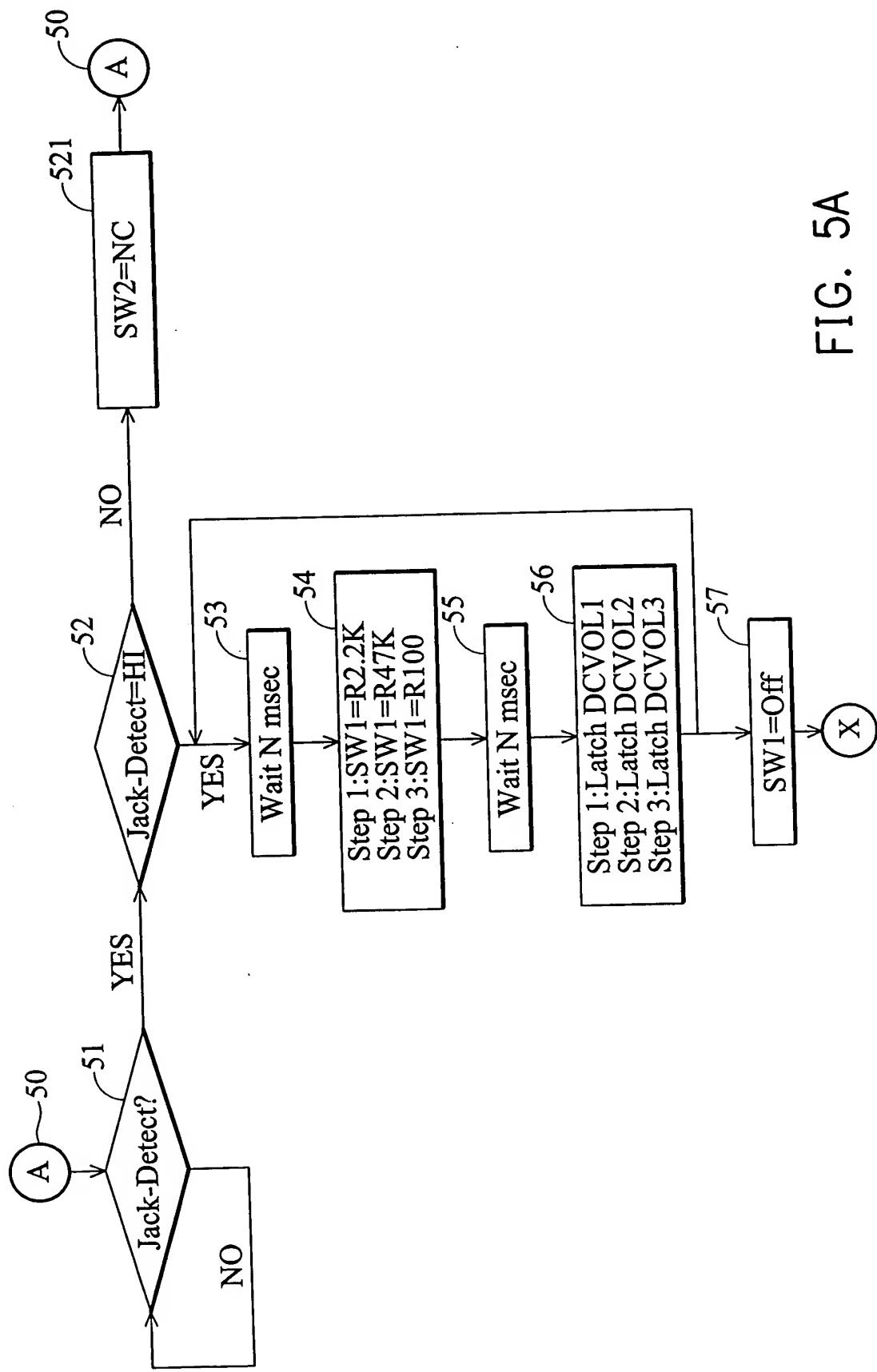


FIG. 4



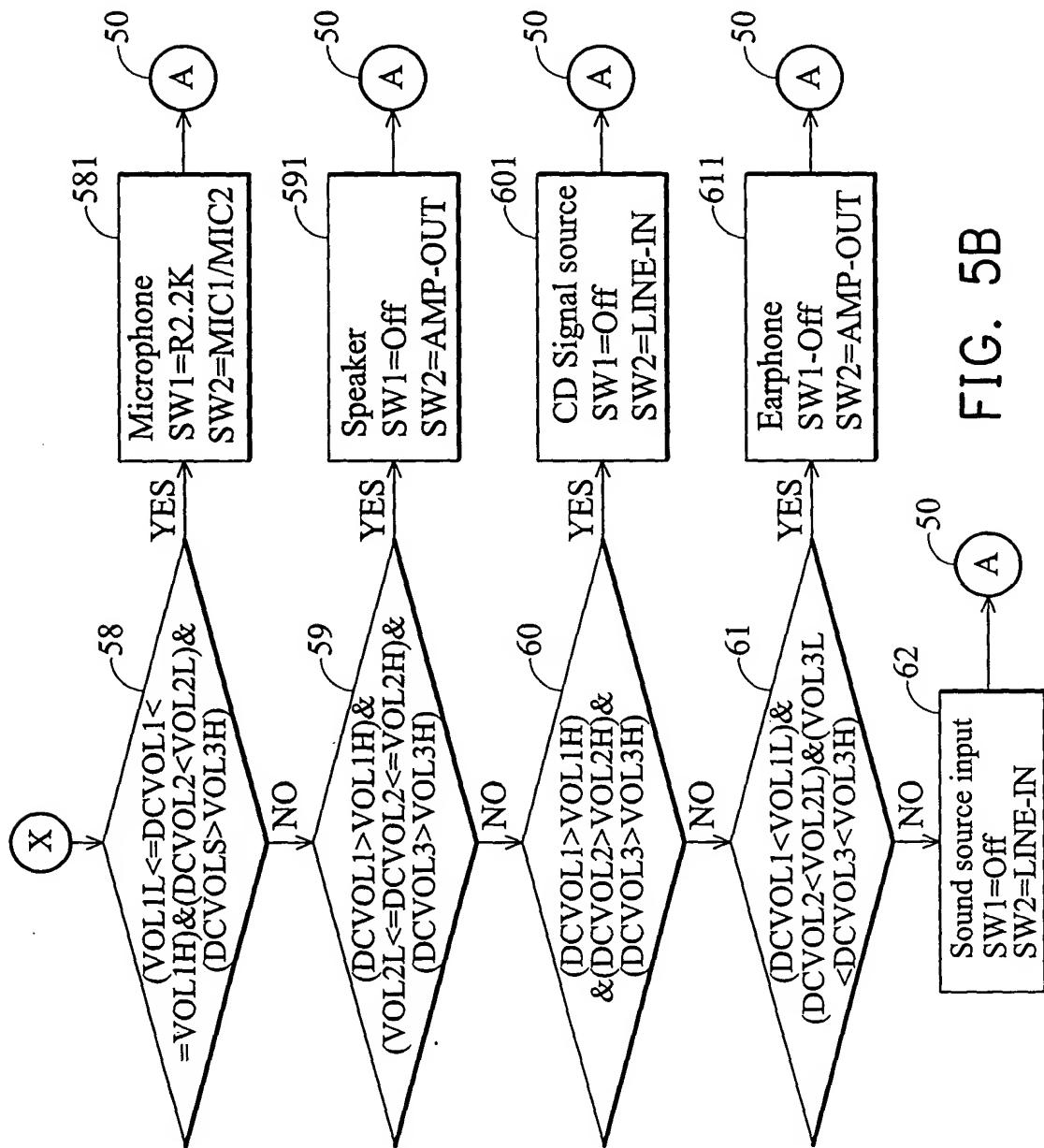


FIG. 5B

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 10 sheets of drawings FIGS.1-7
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 Atty Docket: TOP 325
 Customer NO.: 23995.

| | Impedance | DCVOL1 (R2.2K) | DCVOL2 (R47K) | DCVOL3 (R100K) | Recognized Condition |
|----------------|---------------------|----------------------|---------------------|----------------------|--|
| Power Speaker1 | 10K~100K | 13~15 2.05V~2.45V | 2~10 0.44V~1.7V | 15 2.47V~2.49V | DCVOL1>10 2<=DCVOL2<=9 DCVOL3>10 |
| | 100~150 | 0~1 0.11V~0.16V | 0 0.005V~0.008V | 8~9 1.25V~1.5V | DCVOL1<5 DCVOL2<2 1<DCVOL3<10 |
| Power Speaker2 | 20~50 | 0 0.02V~0.05V | 0 0.001V~0.002V | 2~5 0.42V~0.83V | DCVOL1<5 DCVOL2<2 1<DCVOL3<10 |
| | 500~3k | 3~9 0.46v~1.44v | 0~1 0.026v~0.15v | 13~15 2.08v~2.42v | 5<=DCVOL1<=10 DCVOL2<2 DCVOL3>10 |
| Microphone | Infinite | 15 2.5V | 15 2.5V | 15 2.5V | DCVOL1>10 DCVOL2>9 DCVOL3>10 |
| | Player (LINE-In) | 15 0 15 | 15 0 15 | 15 0 15 | Others |

FIG. 6

| | | Inputs | | | Outputs | | | | | | | | | |
|------------------|------------------|--------|---|---|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| $\overline{G2A}$ | $\overline{G2A}$ | G1 | A | B | C | $\overline{Y0}$ | $\overline{Y1}$ | $\overline{Y2}$ | $\overline{Y3}$ | $\overline{Y4}$ | $\overline{Y5}$ | $\overline{Y6}$ | $\overline{Y7}$ | |
| H | X | X | X | X | X | H | H | H | H | H | H | H | H | H |
| X | H | X | X | X | X | H | H | H | H | H | H | H | H | H |
| X | X | X | X | X | X | H | H | H | H | H | H | H | H | H |
| L | L | H | L | L | L | H | H | H | H | H | H | H | H | H |
| L | L | H | H | L | L | H | H | L | H | H | H | H | H | H |
| L | L | H | H | H | H | H | H | H | H | H | H | H | H | H |
| L | L | L | H | H | L | H | H | H | H | H | H | H | H | H |
| L | L | L | L | H | L | H | H | H | H | H | H | H | H | H |
| L | L | L | L | H | H | H | H | H | H | H | H | H | H | H |
| L | L | L | L | H | H | H | H | H | H | H | H | H | H | H |
| L | L | L | L | H | H | H | H | H | H | H | H | H | H | H |
| L | L | L | L | H | H | H | H | H | H | H | H | H | H | H |

FIG. 7